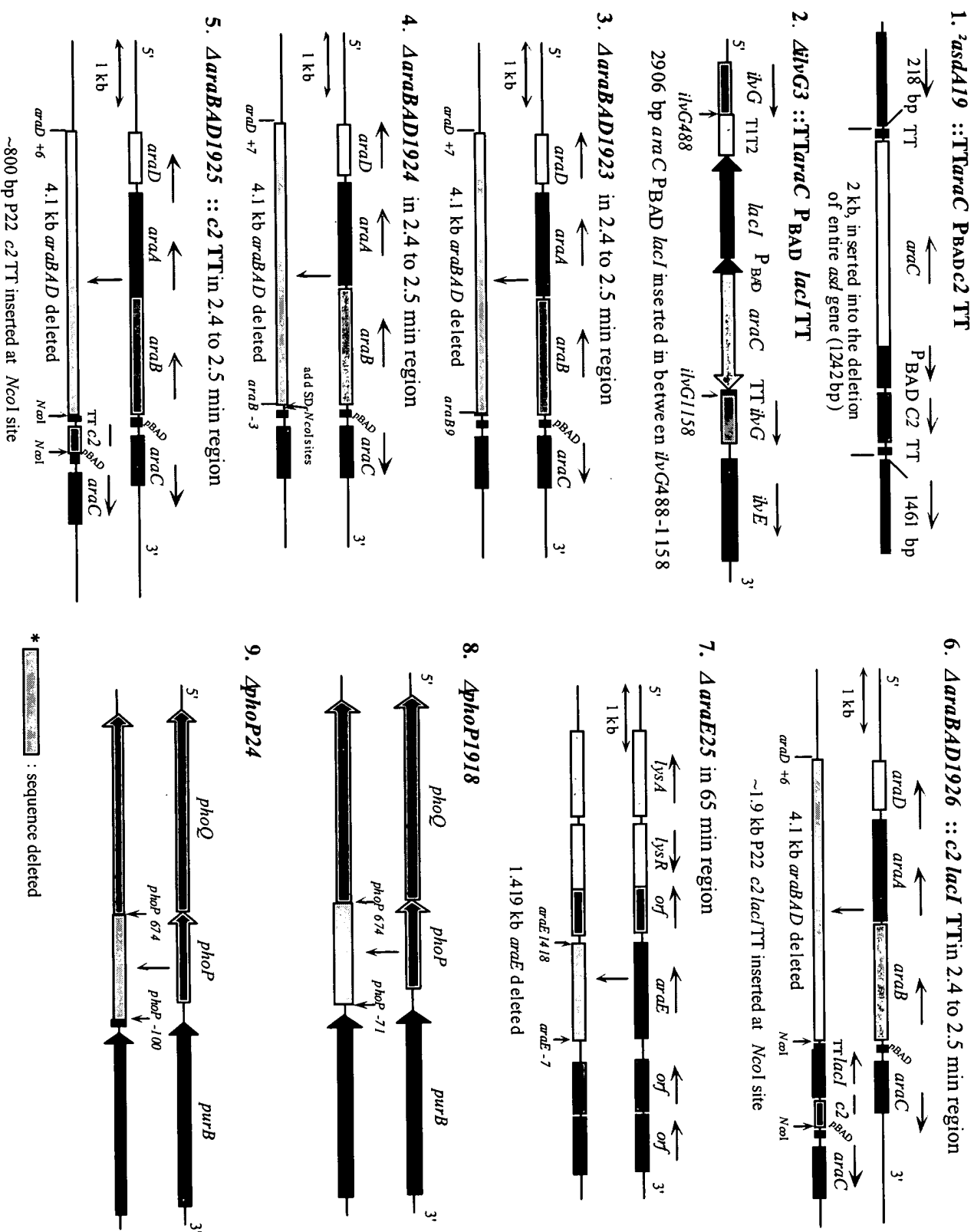


FIG. 1

09560539.042800

Figure 2.



09560539 042300

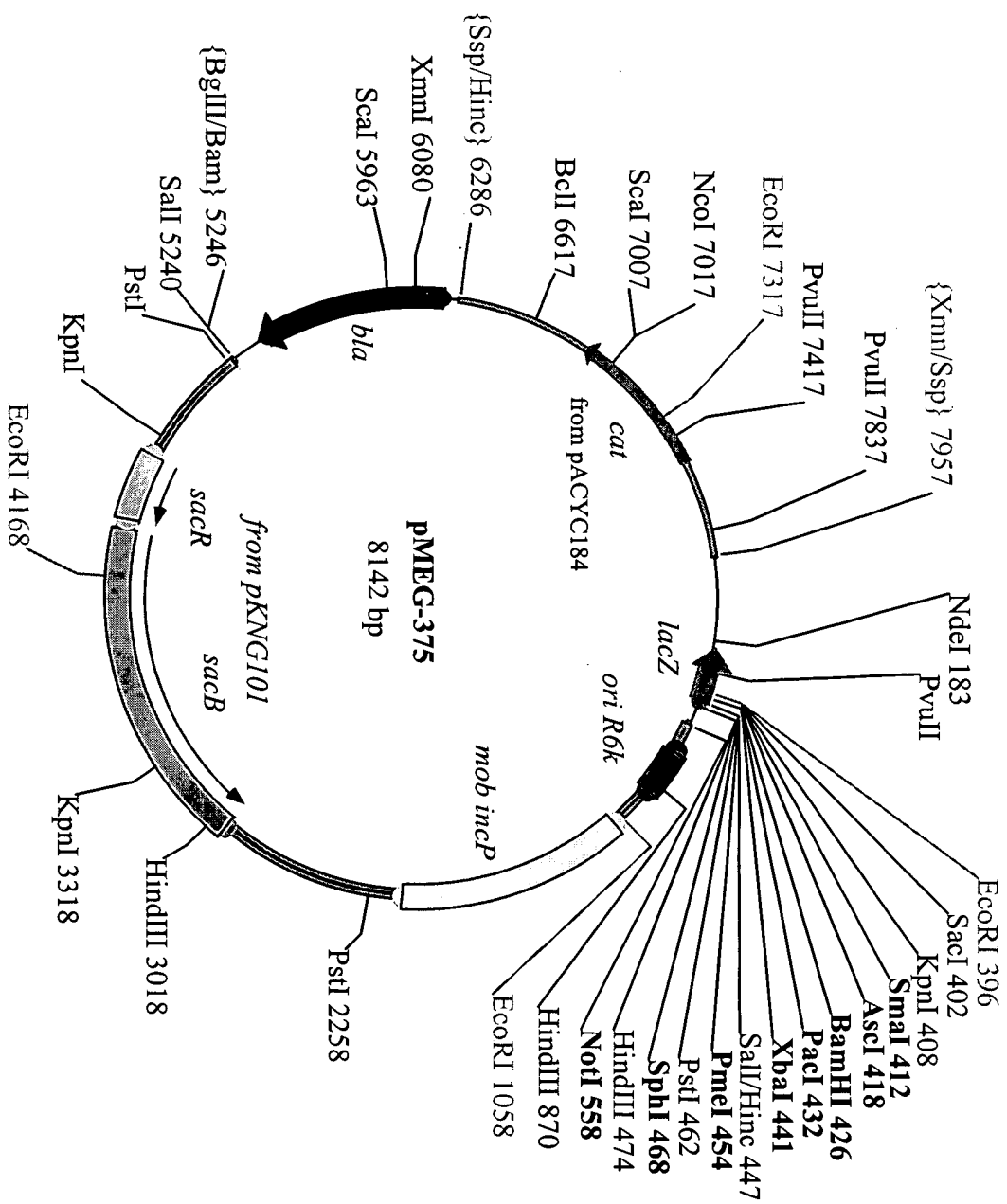


FIG. 3

09560539.042200

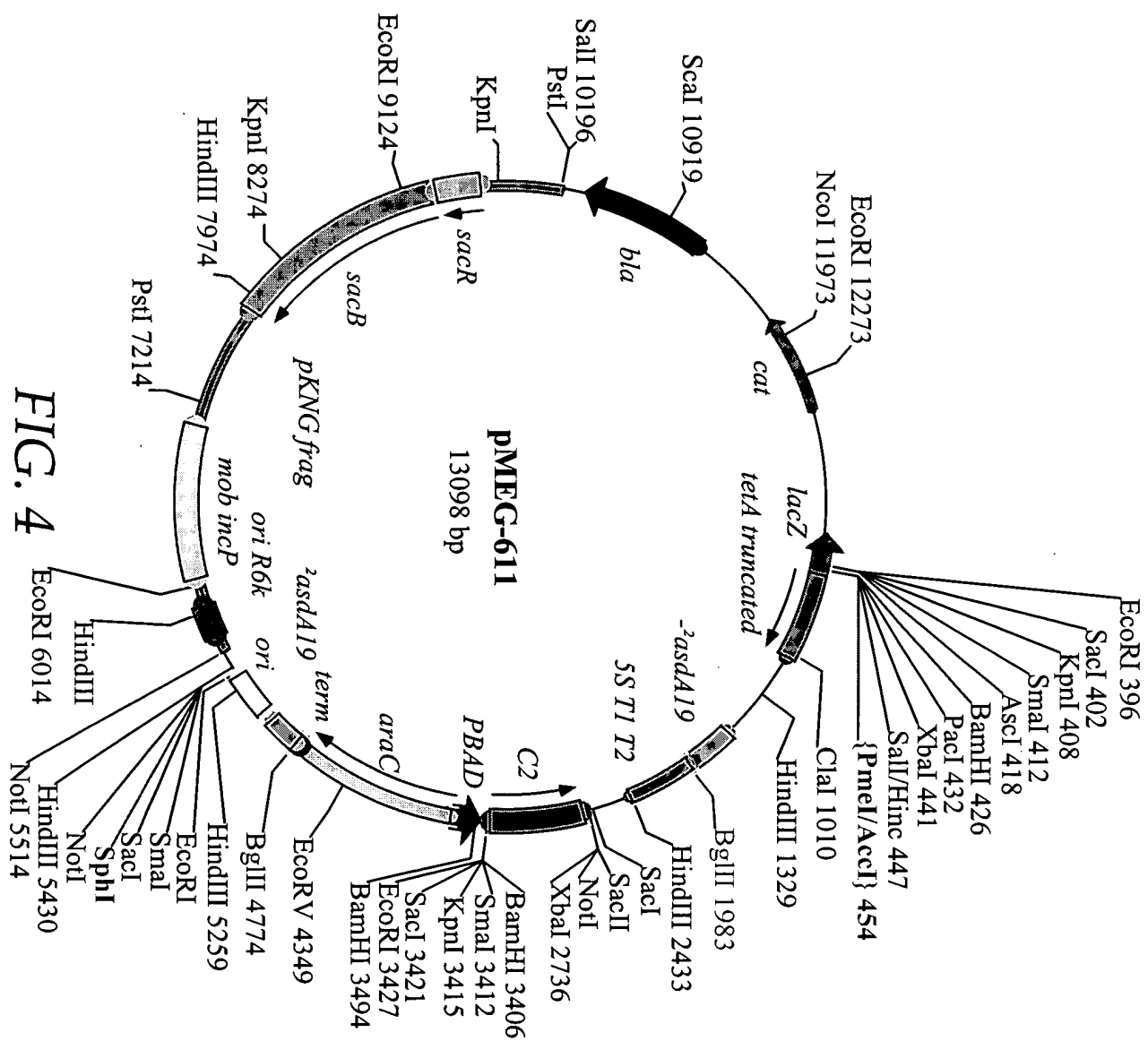


FIG. 4

09560539.042300

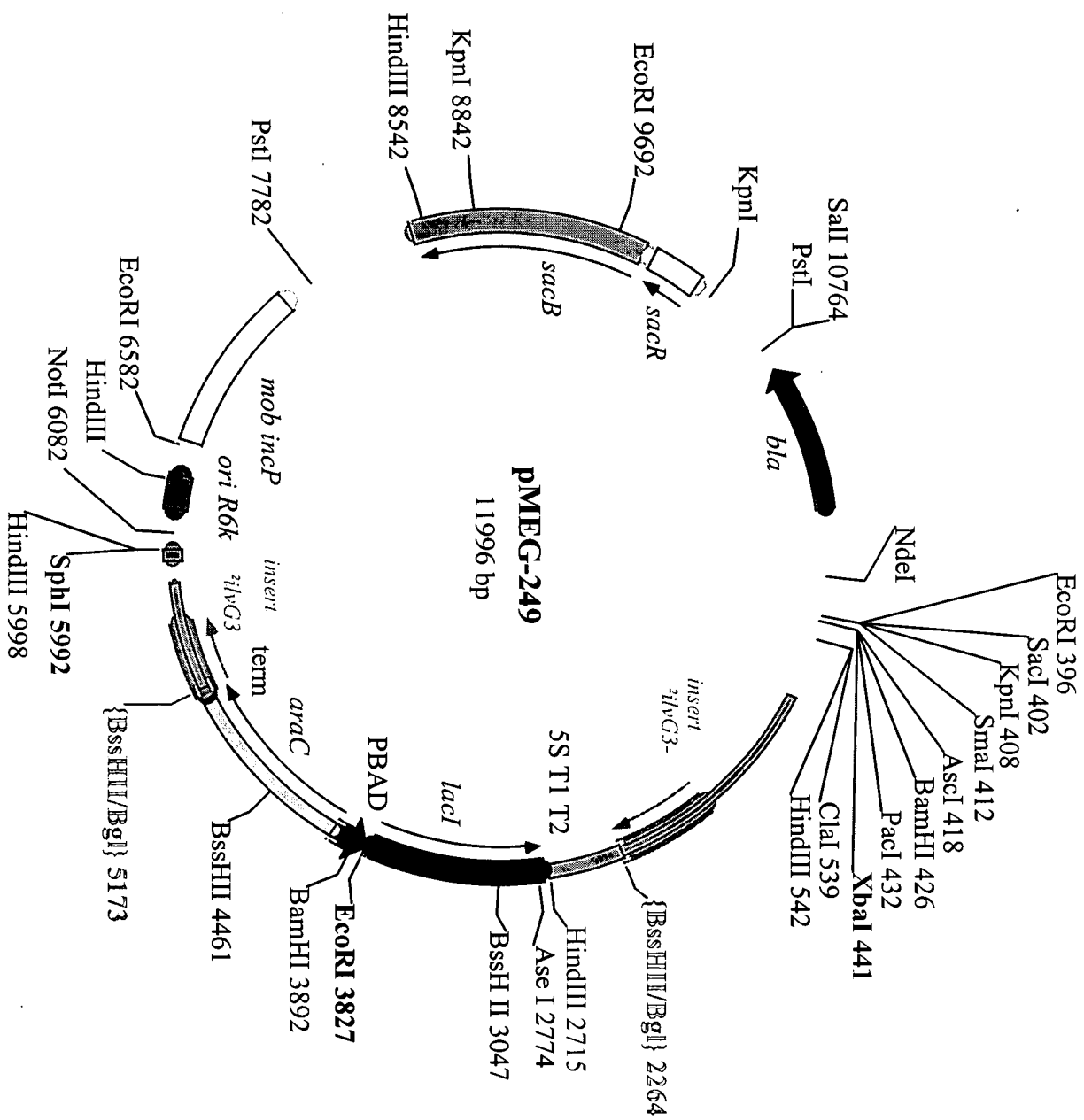


FIG. 5

09560539.042300

Figure 6. pYA3484

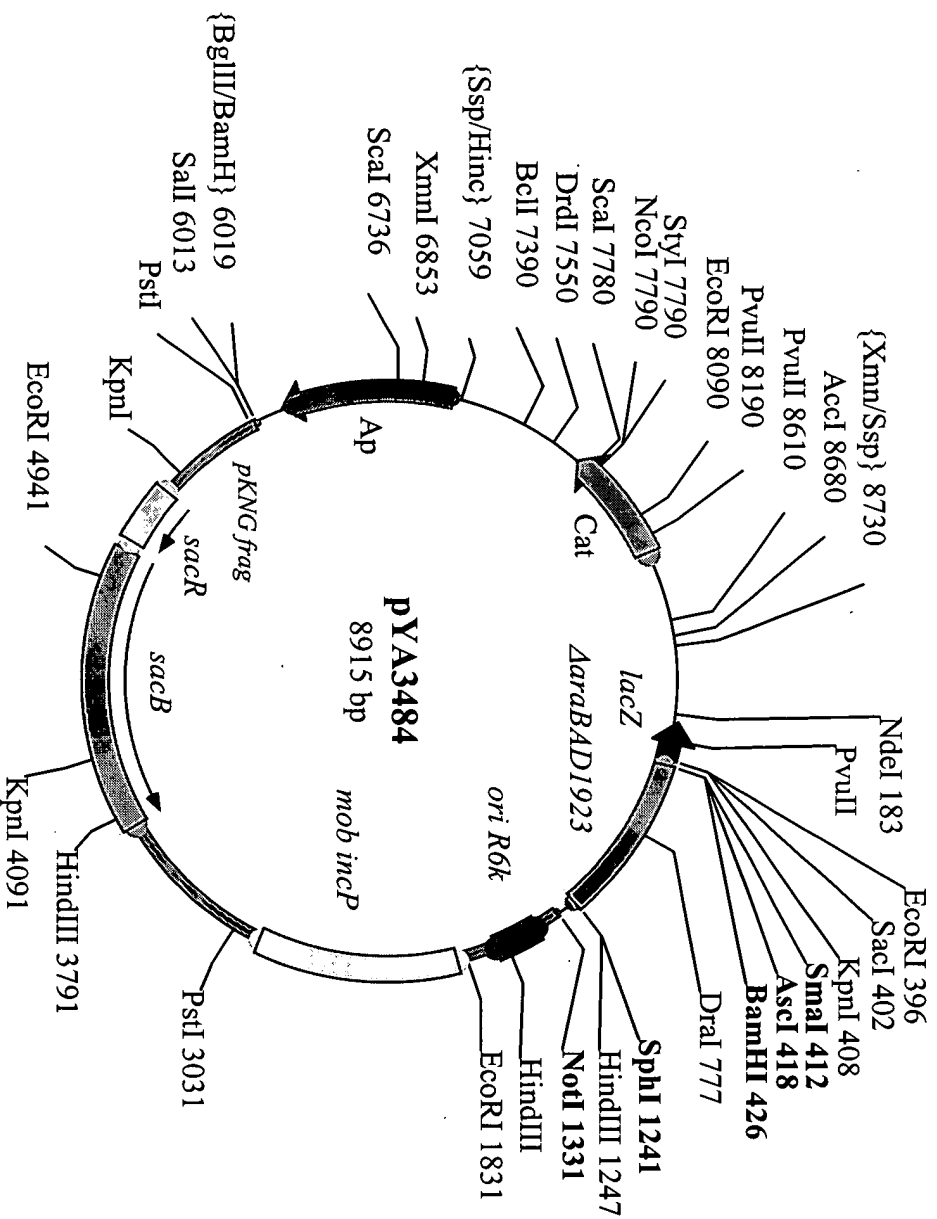
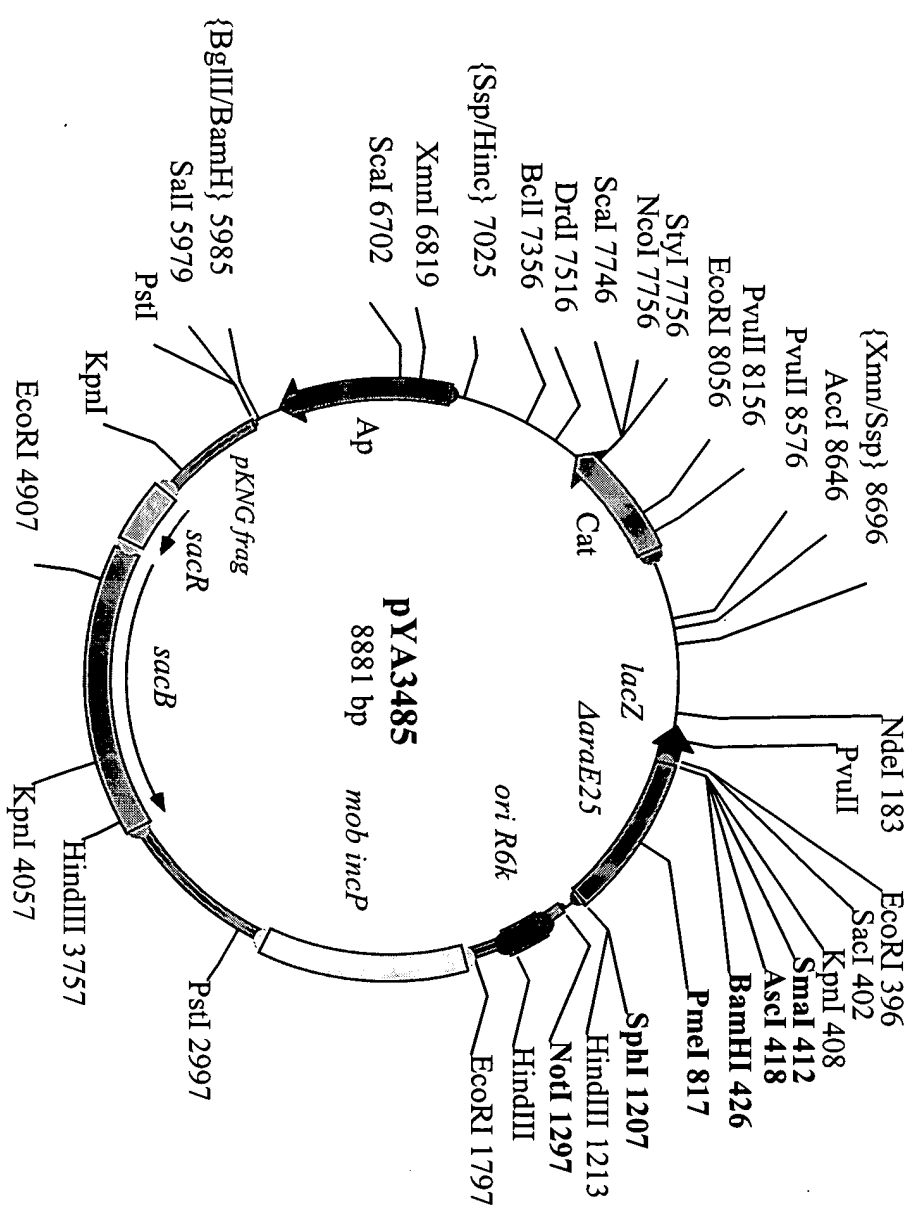


Figure 7. pYA3485



09560539.042300

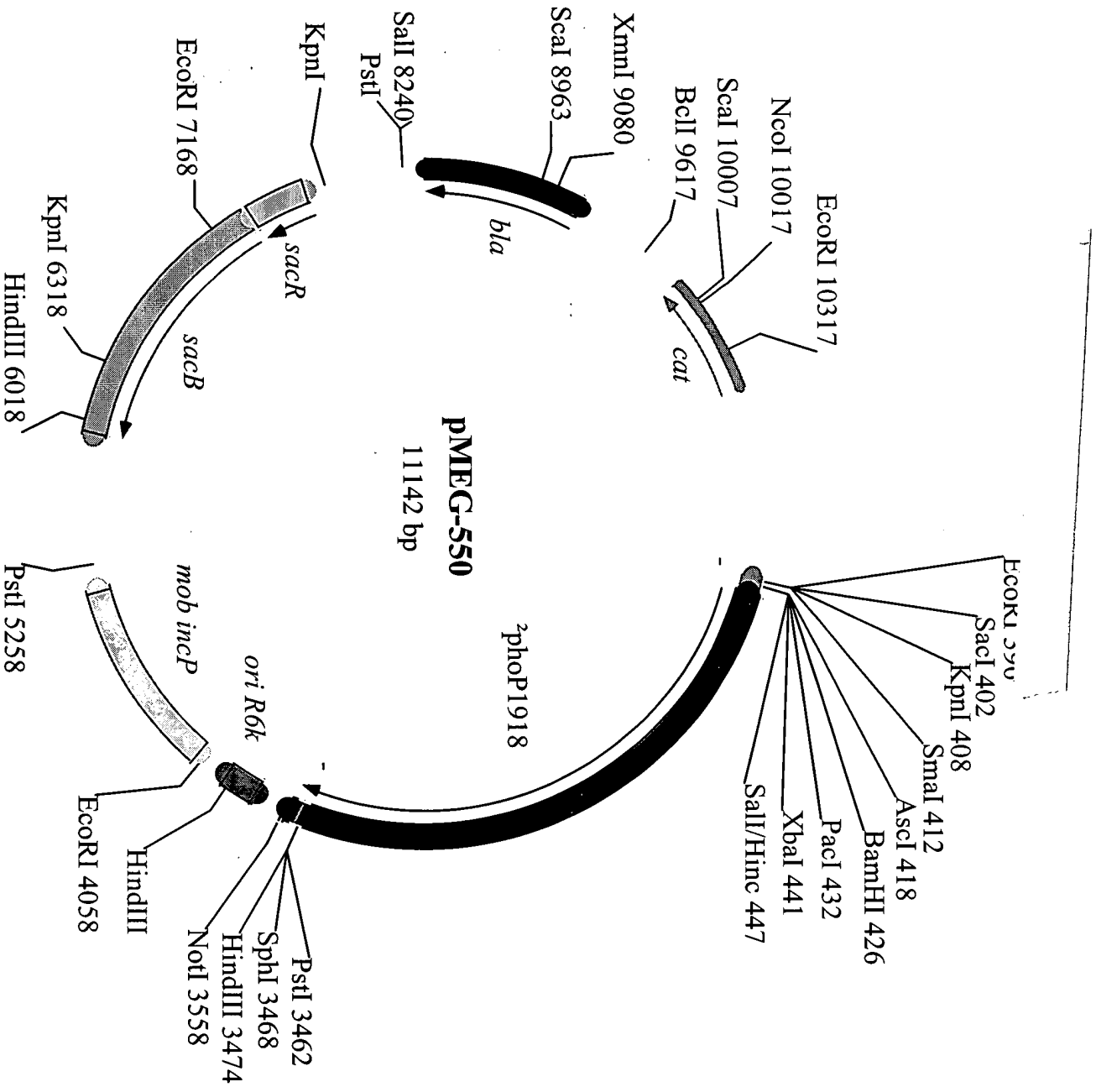


FIG. 8

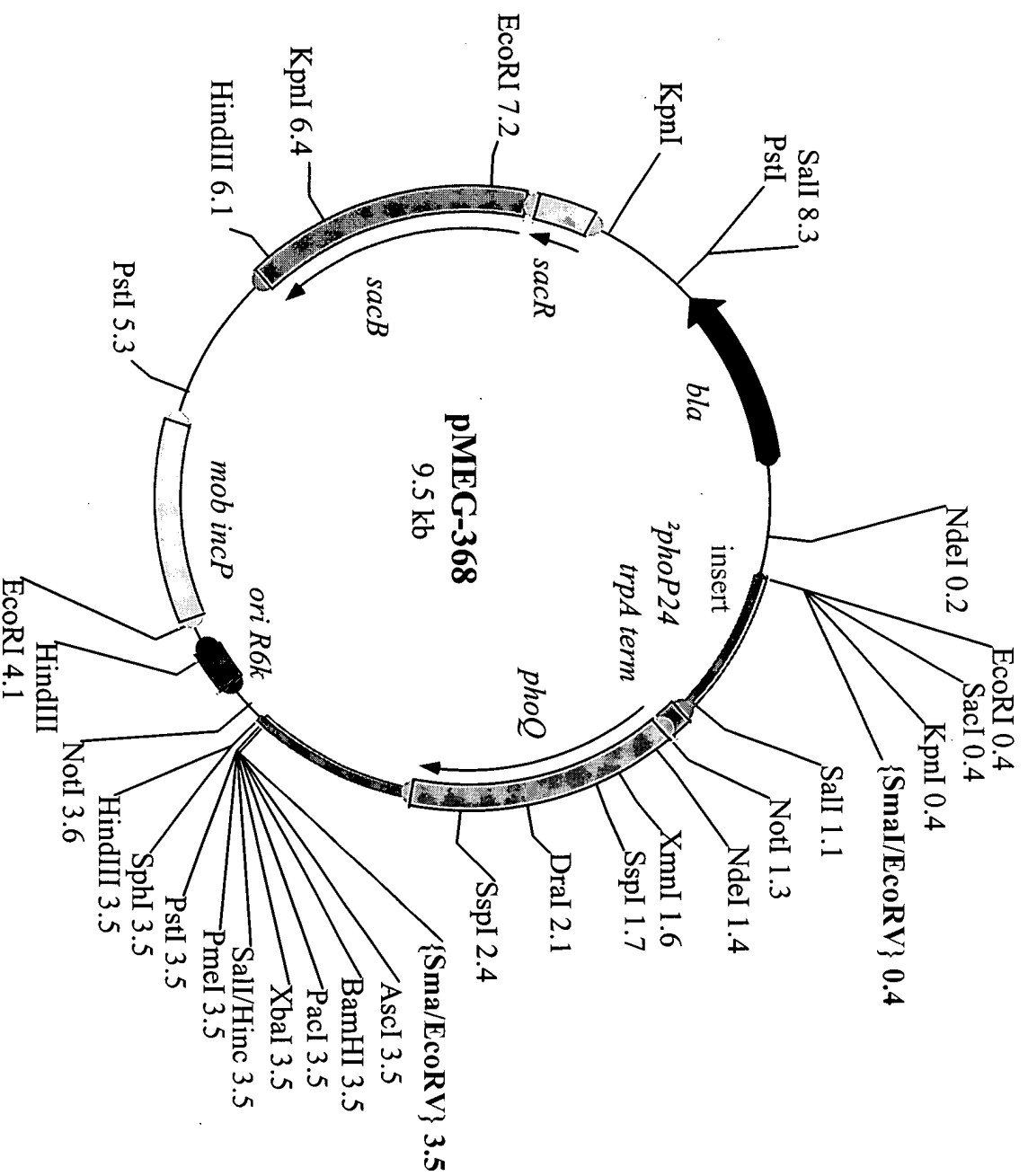


FIG. 9

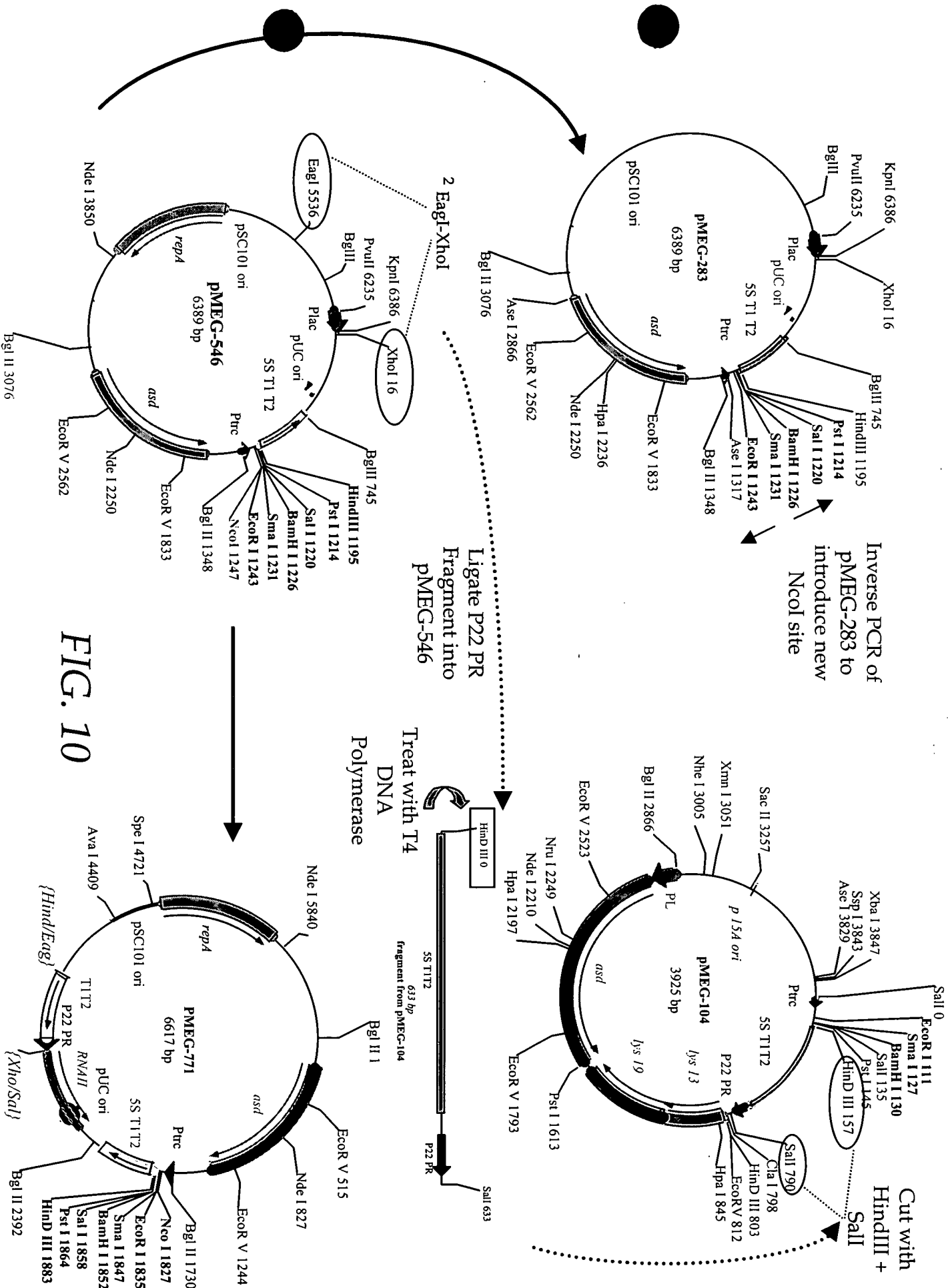


FIG. 10

09560539 in 0422000

Figure 11. Modification of pMEG-771 to include a *lacRB* (*LacI* repressor binding) site after P22 P R right before pUC *RN4II* to yield pYA3535

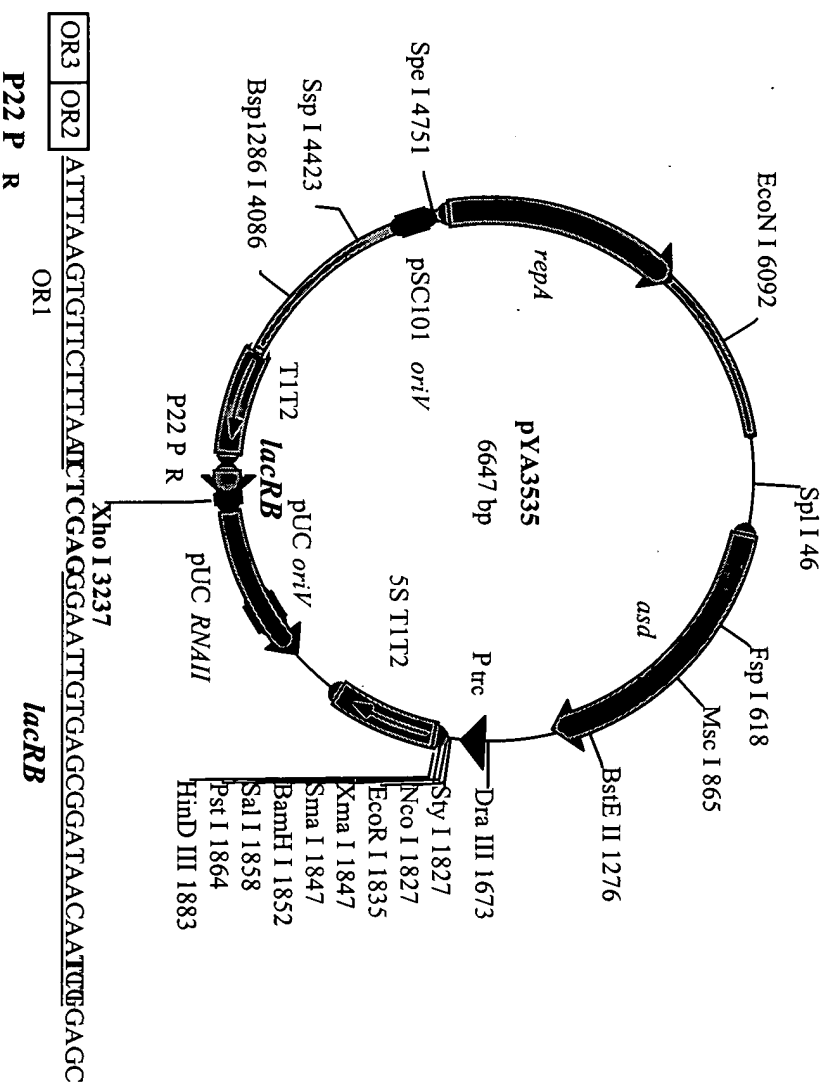
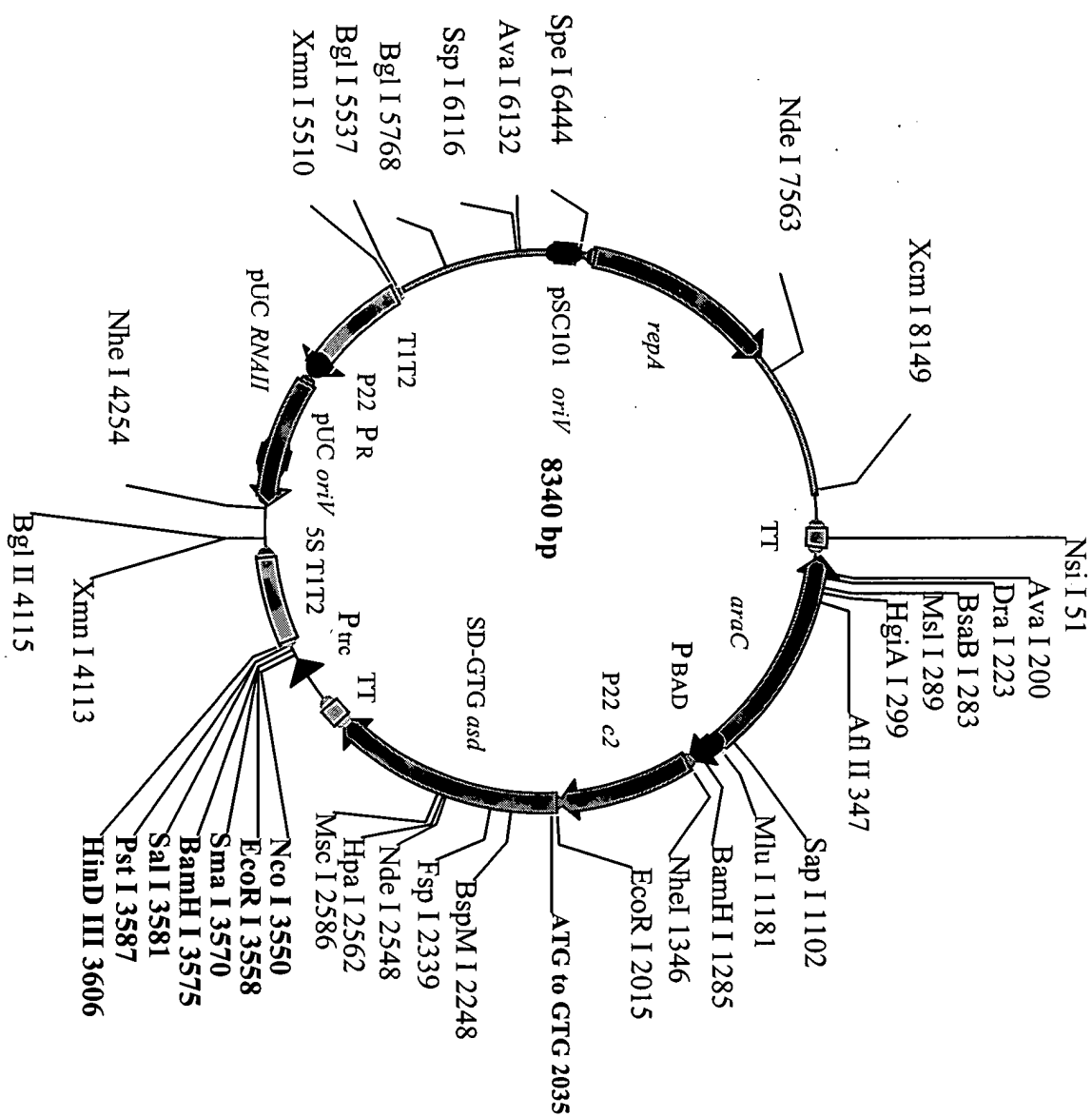


Figure 12. Modification of pMEG-771 to replace *asd* gene with *araC* P_{BAD} *c2* GTG_{asd}



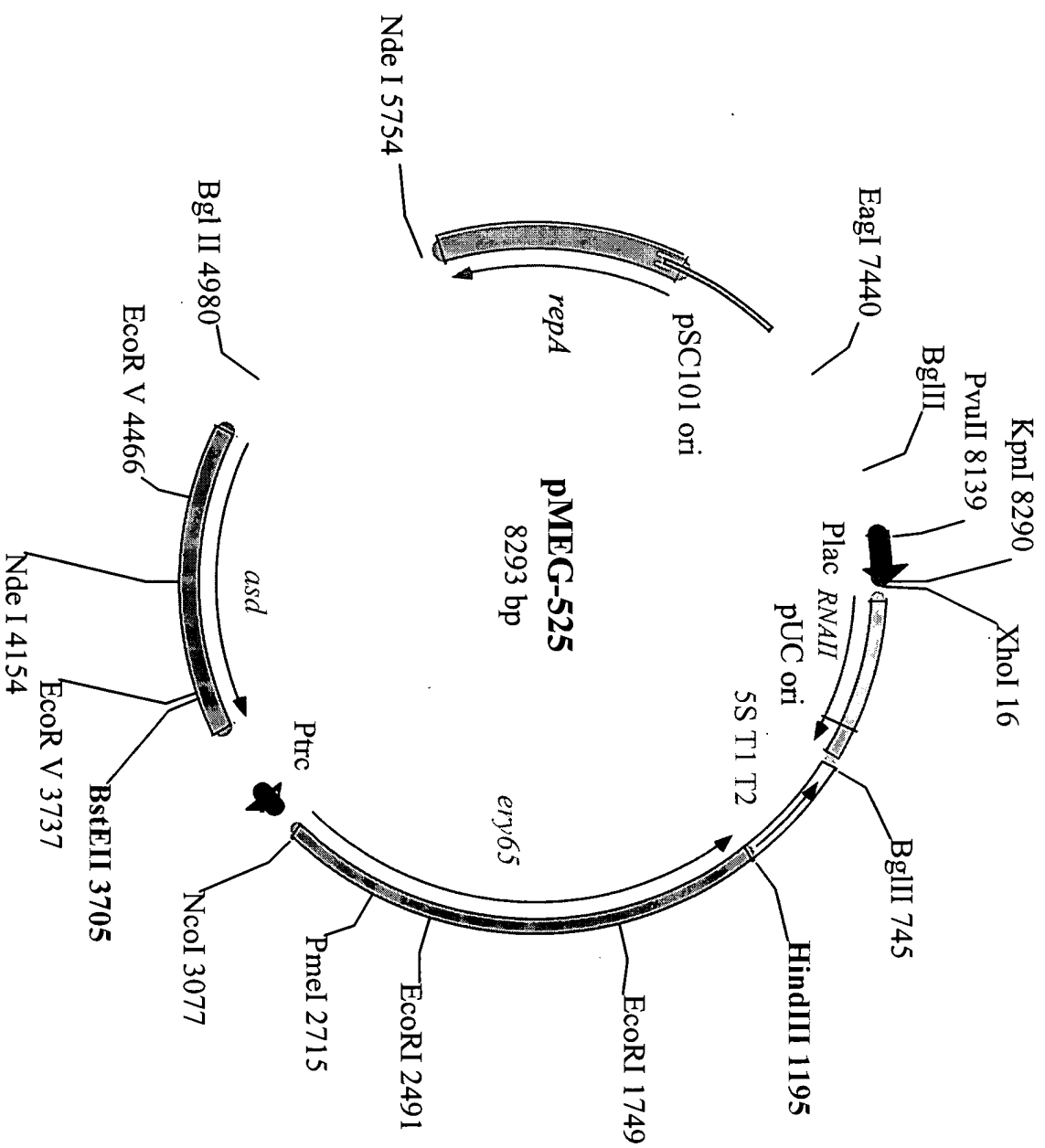


FIG. 13

09560539.042300

Increases in Plasmid DNA Copy Number of Ery65 Strains During Growth Without Arabinose

Salmonella typhimurium
MGN-966 Containing

Salmonella choleraesuis
MGN-2267 Containing

	4 hr	6 hr	8 hr
marker			
pMEG-283 + Arab.			
pMEG-283 -			
pMEG-525 + Arab.			
pMEG-525 -			

	4 hr	6 hr	8 hr
marker			
pMEG-546 + Arab.			
pMEG-546 -			
pMEG-525 + Arab.			
pMEG-525 -			

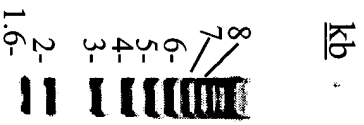
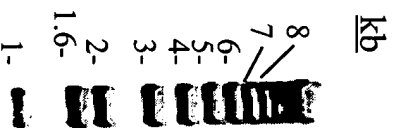


FIG. 14

Increases in Ery65 Protein Expression During Growth With out Arabinose

Salmonella typhimurium
MGN-966(pMEG-525)

Salmonella choleraesuis
MGN-2267(pMEG-525)

Salmonella typhimurium
MGN-966(pMEG-525)

Salmonella choleraesuis
MGN-2267(pMEG-525)

4 hr 6 hr 8 hr

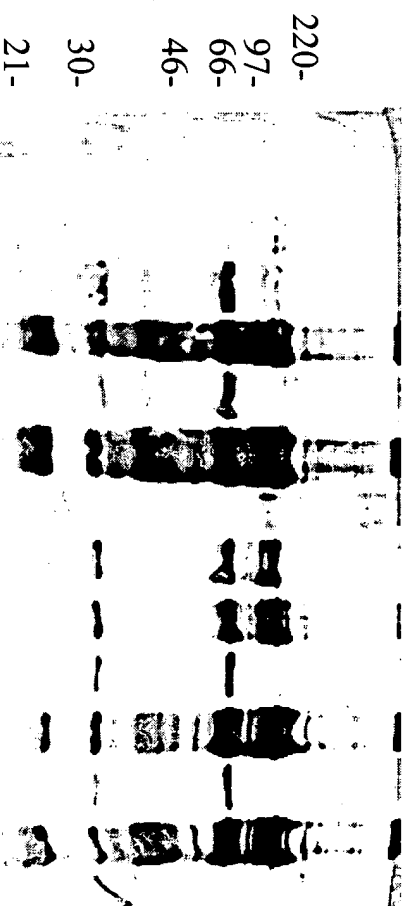
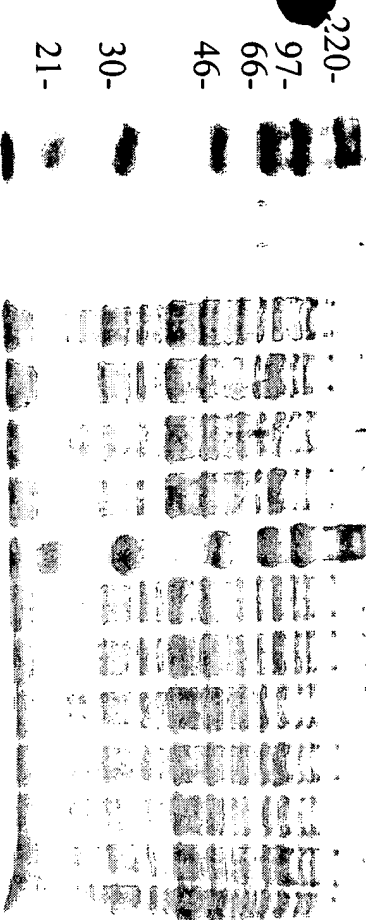
4 hr 6 hr 8 hr

4 hr 6 hr 8 hr

4 hr 6 hr 8 hr

KMW
marker
Ery65 + Arab.
Ery65 -
Ery65 + Arab.
Ery65 -
Ery65 + Arab.
Ery65 -
marker
Ery65 + Arab.
Ery65 -
Ery65 + Arab.
Ery65 -
Ery65 + Arab.
Ery65 -
Vector -

KMW
marker
Ery65 + Arab.
Ery65 -
Ery65 + Arab.
Ery65 -
Ery65 + Arab.
Ery65 -
marker
Ery65 + Arab.
Ery65 -
Ery65 + Arab.
Ery65 -
Ery65 + Arab.
Ery65 -
Vector-



Coomassie

FIG. 15

Western

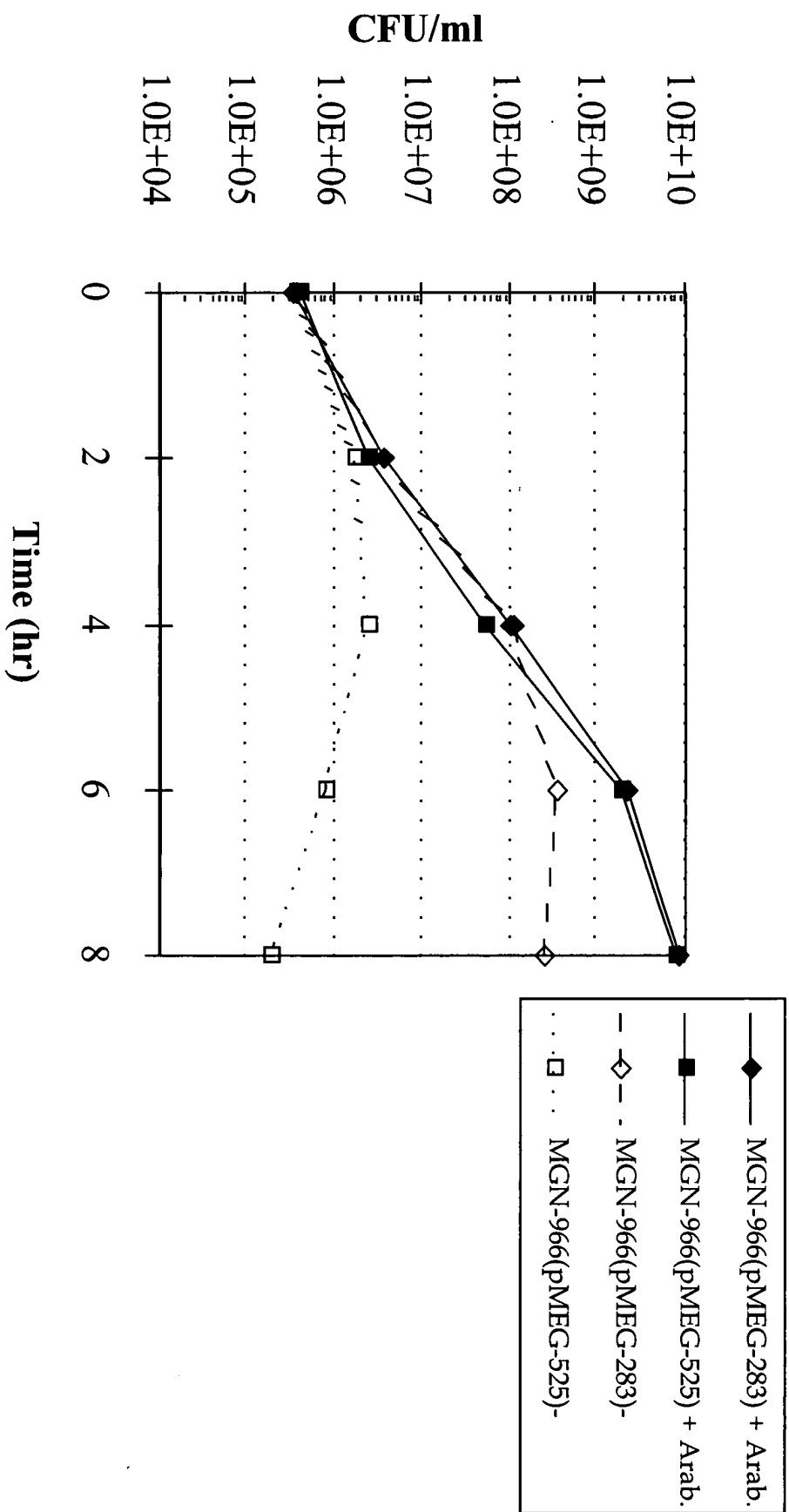


FIG. 16

Western Blot Analysis of Sera from *S. typhimurium* Inoculated Mice

Day 28 sera

Day 48 sera

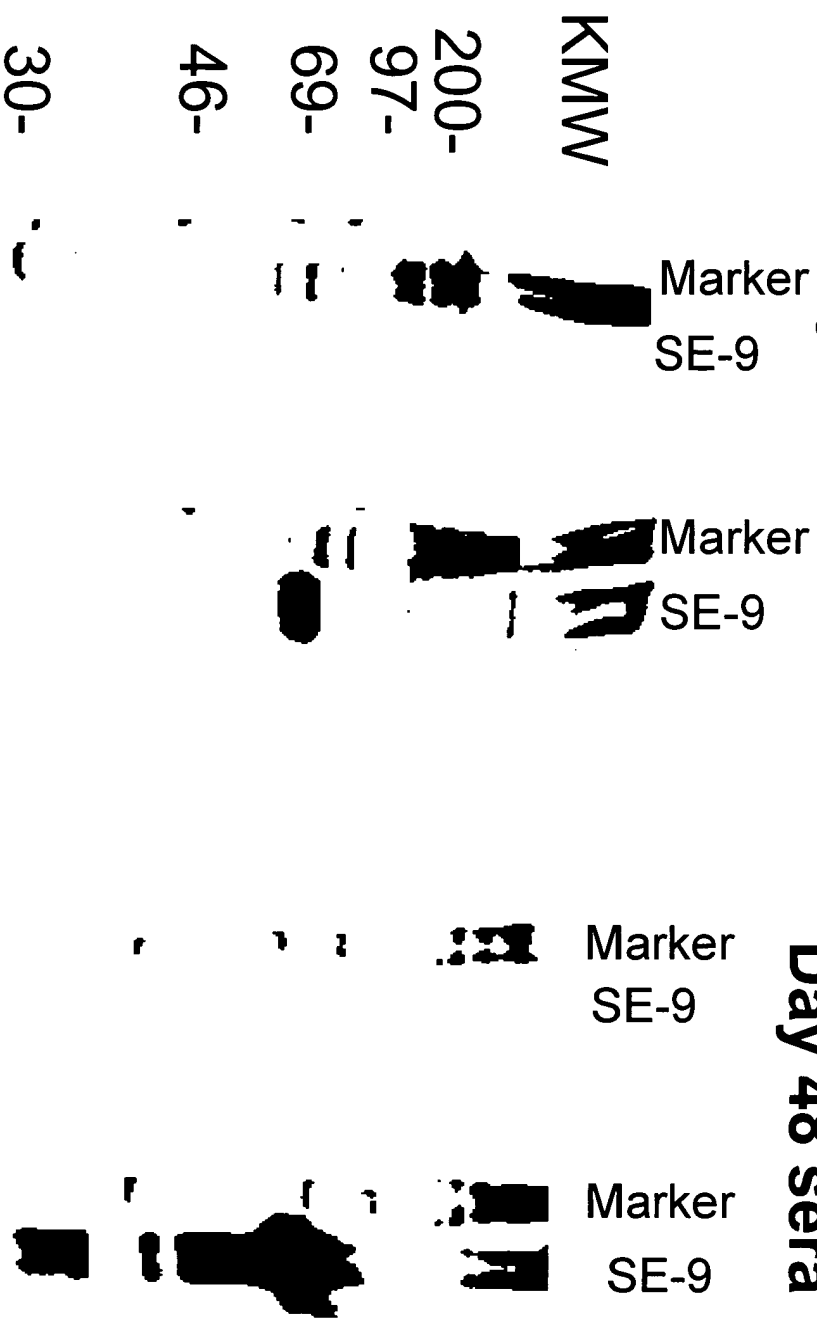


FIG. 17

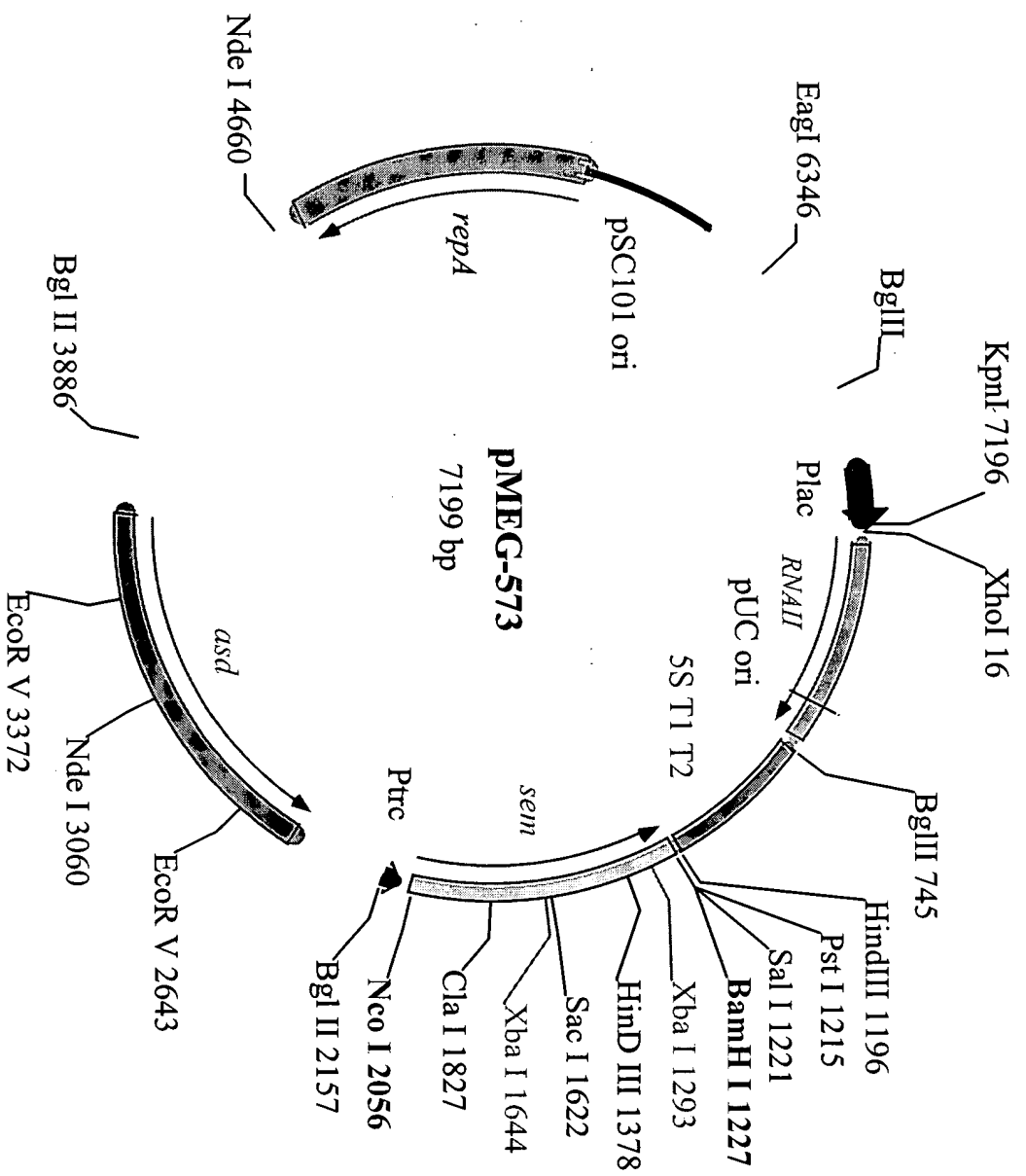


FIG. 18

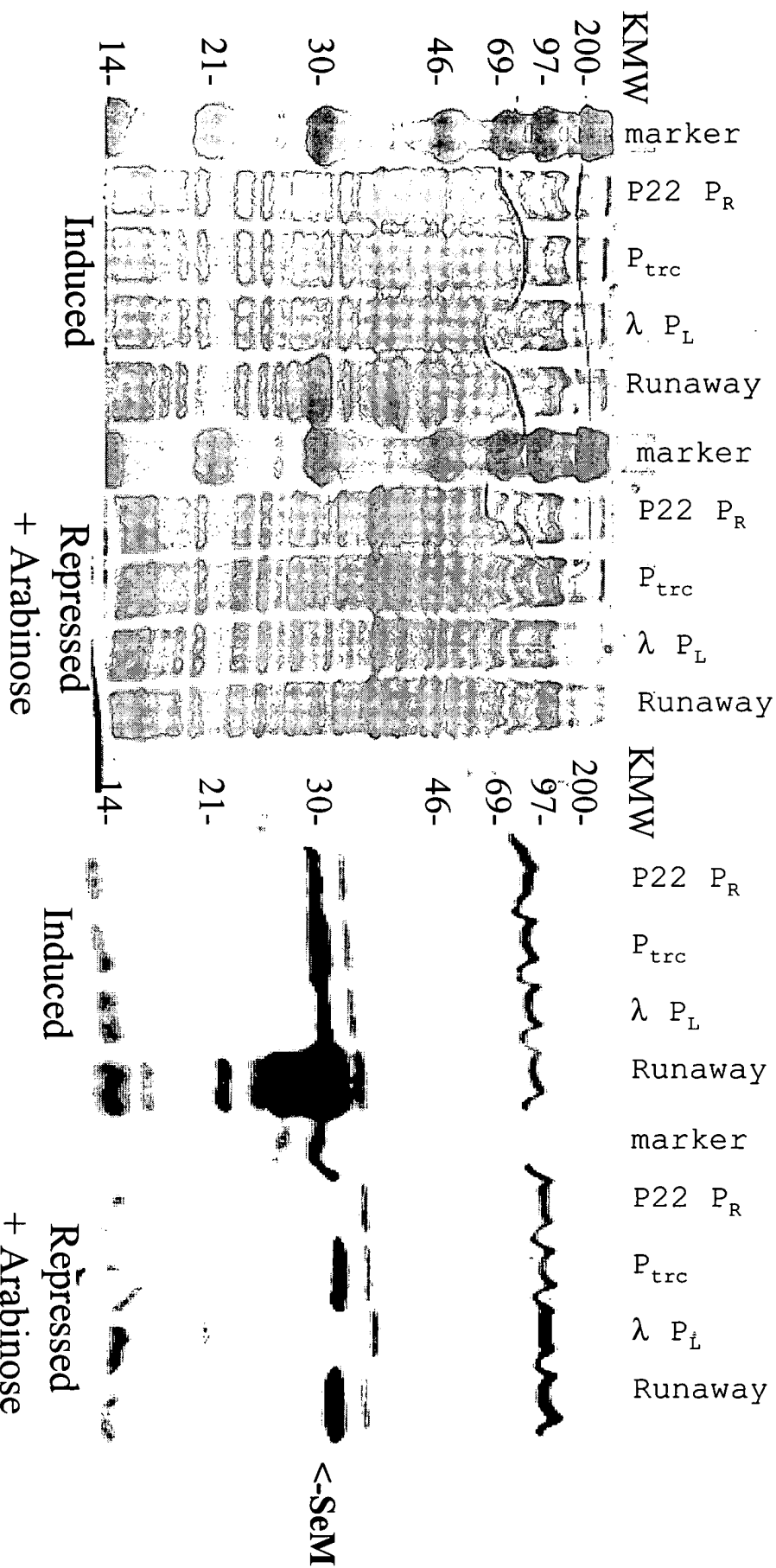


FIG. 19

09560539.042800

Figure 20. pYA3530 with *araC* P_{BAD} GTG *asd*

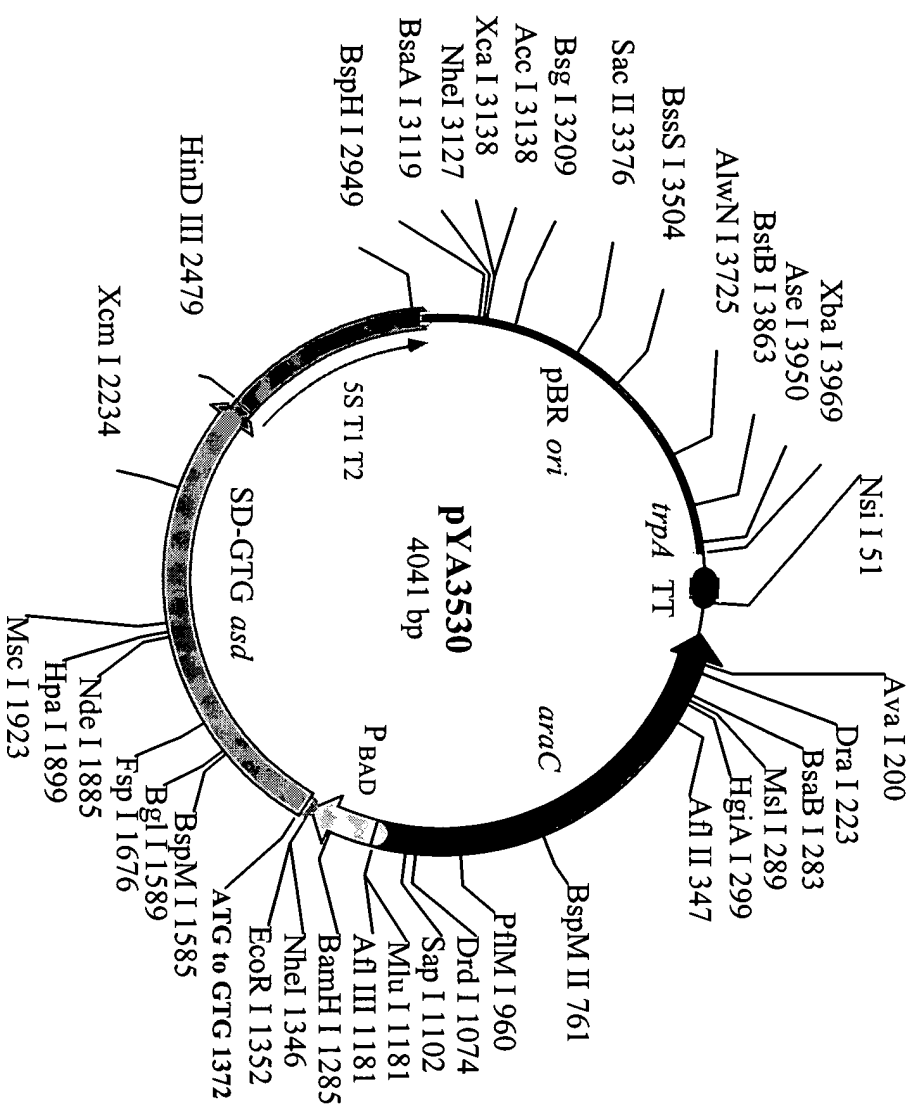


Figure 21. pYA3531 with *araC* P_{BAD} P_{22 c2} GTG *asd*

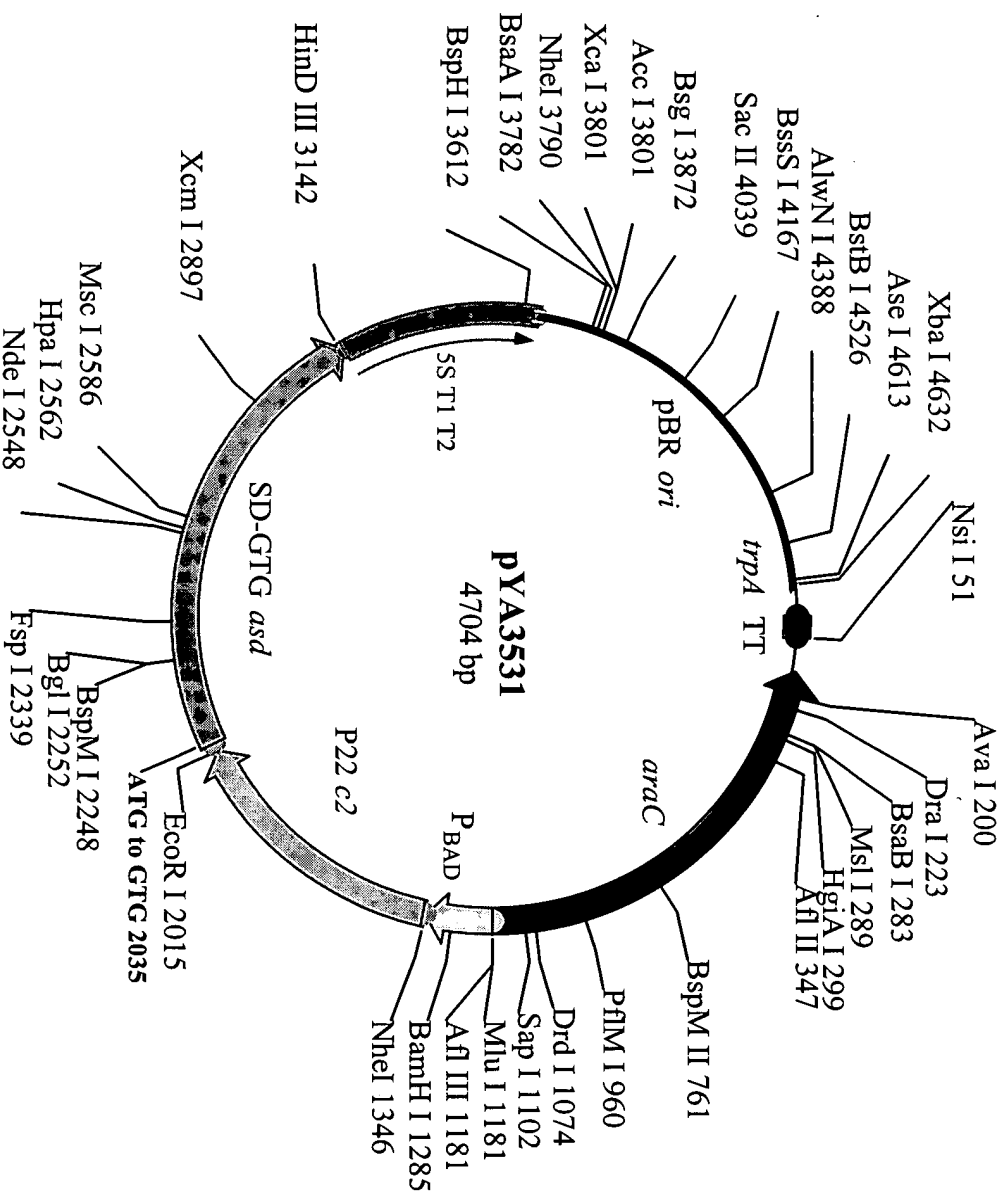
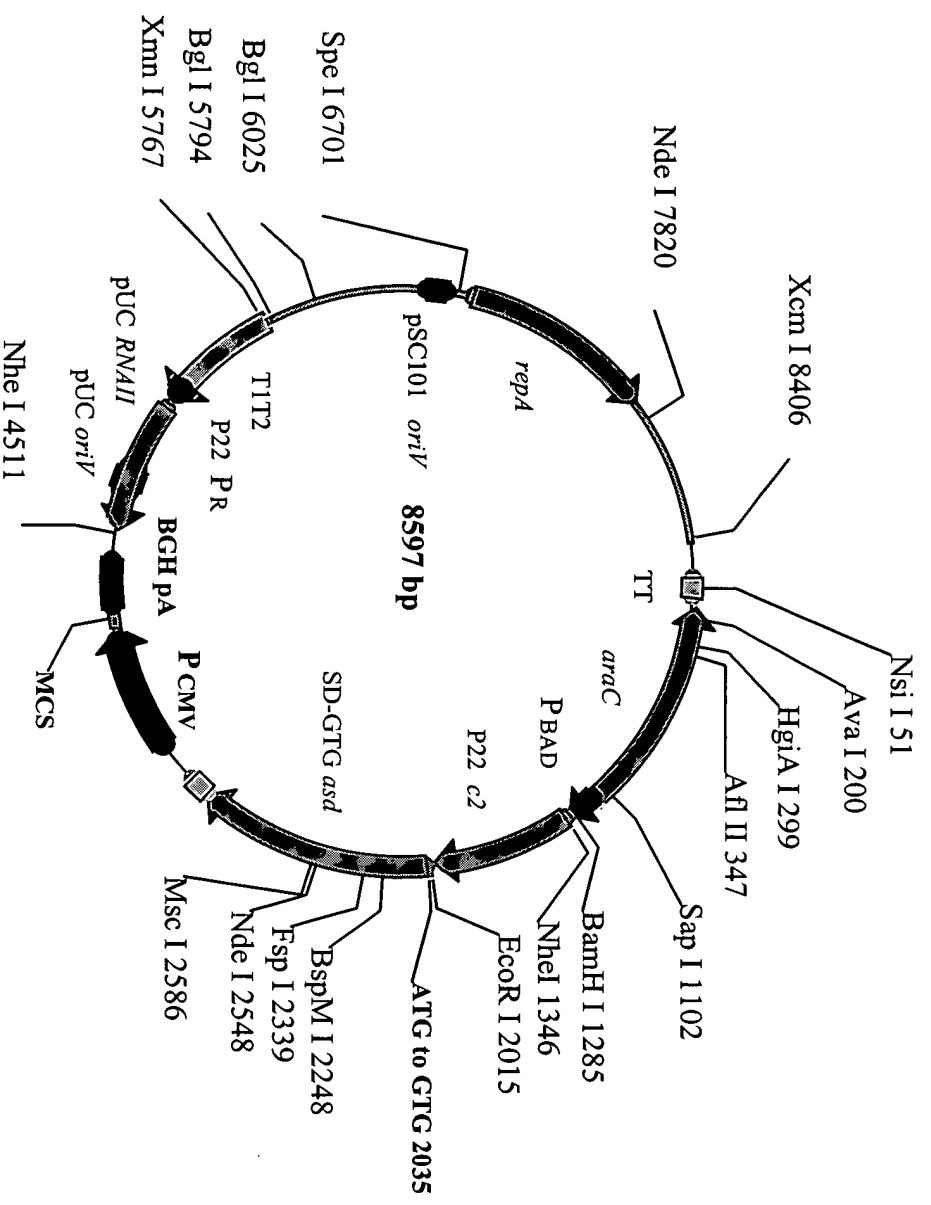


Figure 22. pMEG-771 modified with *asd* gene replaced by *araC* *Bad c2* GTG *asd* and *P_{trc}* MCS 5ST1T2 replaced by eucaryotic *Amv* BGH PA expression cassette from pVAX1 plasmid



09560539_042300

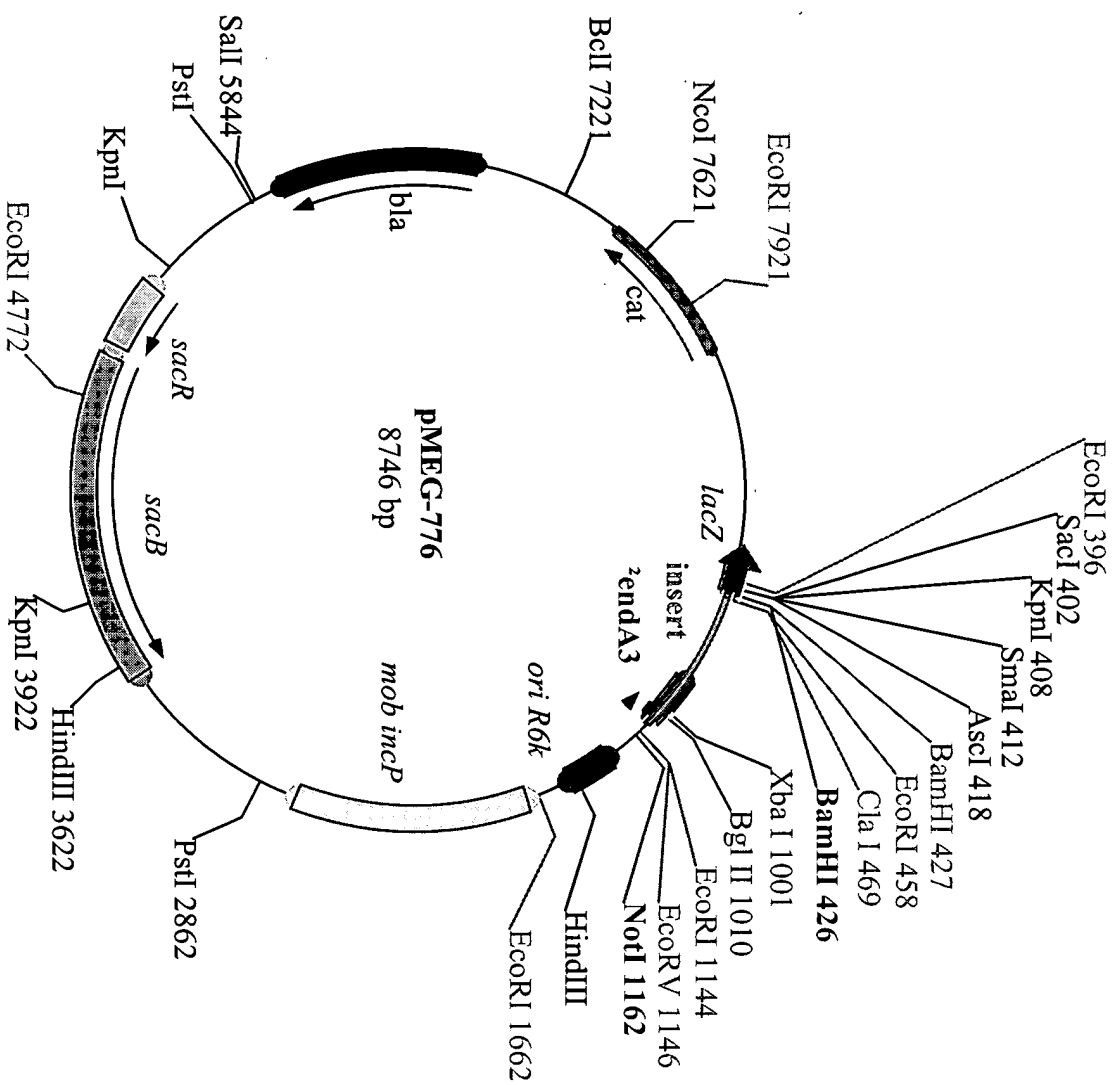


FIG. 23